ABSTRACT

An interference power calculation section 208 calculates an interference power value of each symbol according to a calculation expression (interference power = average power of parts unaffected by interference + average power of parts affected by interference) and notifies a turbo decoding section 209 of the calculated interference power value. The turbo decoding section 209 calculates σ^2 used to calculate an LLR of turbo decoding according to a calculation expression (σ^2 = thermal noise + interference power) based on the interference power value notified from the interference power calculation section 208 and thereby changes σ^2 based on the interference power value for each symbol notified from the interference power calculation section 208.